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23. *Sticta pulmonaria* (L.) Ach. Common on the base of oaks near the summit. Sterile.
 24. *Peltigera canina* (L.) Hoffm. b. *spongiosa* Tuckerm. One specimen on rocks. 1500 ft. elevation. Sterile.
 25. *Lecanora pallida* (Schreb.) Schær. On oaks at the summit.
 26. *Lecanora subfusca* (L.) Ach. Common on deciduous trees.
 27. *Lecanora pallescens* (L.) Schær. On a fallen log. 1800 ft.
 28. *Pertusaria velata* (Turn.) Nyl. On oaks near the summit.
 29. *Stereocaulon paschale* (L.) Fr. On stone wall. Sterile.
 30. *Stereocaulon* (tomentosum ?) (Fr.) Th. Fr. On earth on ledges at summit. Sterile.
 31. *Cladonia cenotea* (Ach.) Schær. b. *furcellata* Fr. Found among moss near brook. About 1200 ft. elevation.
 32. *Cladonia uncialis* (L.) Fr. *obtusata* (Ach.) Found sparingly about 1600 ft.
 33. *Cladonia gracilis* (L.) Nyl. *dilacerata* Floerk. On rocks about 1200 ft.
 34. *Cladonia furcata* (Huds.) Fr. Common on ground about 1500 ft.
 35. *Cladonia rangiferina* (L.) Hoffm. b. *sylvatica* L. Common on ground nearly to the summit.
 36. *Cladonia cristatella* Tuckerm. Common on fallen logs.
 37. *Lecidea enteroleuca* Fr. Common on deciduous trees.
 38. *Graphis scripta* Ach. On oak trees near summit.
- Specimens which were observed, as *Physcia stellaris*, for example, are not enumerated, only those actually collected. The *Cladonias* in the above list were determined through the kindness of Mr. G. K. Merrill. The specimens are for the most part in my own Herbarium. Concord, Mass

A LIST OF FOLIACEOUS AND FRUTICOUS LICHENS.

Collected at Chilson Lake, Essex Co., New York. Altitude 1200 ft.

By CAROLYN W. HARRIS.

RAMALINA CALICARIS (L.) Fr.

“ “ var. *FRAXINEA* Fr.

“ “ “ *FASTIGIATA* Fr.

“ “ “ *CANALICULATA* Fr. On trees, both evergreen and deciduous.

RAMALINA CALICARIS var. *FARINACEA* Schær. Found on rocks, especially rocky cliffs with a northern exposure.

RAMALINA POLLINARIA (Ach.) Tuckerm. Found on dead trees and on rocks.

RAMALINA RIGIDA (Pers.) Tuckerm. On trees.

CESTRARIA ISLANDICA (L.) Ach. On the earth, rare.

“ *CILIARIS* (Ach.) Tuckerm. Very common, especially on dead evergreens.

- CETRARIA LACUNOSA Ach. Very common, growing with *C. ciliaris*.
“ GLAUCA (L.) Ach. On trees, abundant.
“ OAKESIANA Tuckerm. Found on dead trees and occasionally on rocks.
CETRARIA AURESCENS Tuckerm. On evergreens, usually dead or dying.
EVERNIA FURFURACEAE (L.) Mann. Found on dead arbor vitae.
“ PRUNASTRI (L.) Ach. On dead trees, very abundant.
USNEA BARBATA (L.) Fr.
“ “ var. FLORIDA Fr.
“ “ “ HIRTA Fr.
“ “ “ CERATINA Schær.
“ “ “ DASYPOGA Fr.
“ “ “ PLICATA Fr.
“ “ “ RUBIGINEA Michx.
“ ANGULATA Ach.
“ TRICHODEA Ach.
“ LONGISSIMA Ach. Found on dead or dying evergreens, especially in swampy dense woods.
CETRARIA JUNIPERINA (L.) Ach.
“ “ var. PINASTRI Ach. Collected on dead wood.
ALECTORIA JUBATA (L.) Tuckerm.
“ “ var. CHALYBEIFORMIS Ach.
“ “ “ IMPLEXA Fr. Found on dead trees and fence rails.
THELOSCHISTES CHRYSOPHTHALMUS (L.) Norm. Collected on trees.
“ PARIETINUS (L.) Norm. Very common on trees.
“ POLYCARPUS (Ehrh.) Tuckerm. Common on trees and rocks.
THELOSCHISTES LYCHNEUS (Nyl.) Tuckerm. On living deciduous trees.
“ CONCOLOR (Dicks.) Tuckerm.
“ “ var. EFFUSE Tuckerm. Collected on trees.
PARMELIA PERLATA (L.) Ach. On granitic rocks, very abundant.
“ PERFORATA (Jacq.) Ach. Found on dead or dying conifers.
“ TILIACEA (Hoffm.) Floerk. Very common on dead wood.
“ BORRERI Turn.
“ “ var. RUDECTA Tuckerm. Collected on trees both dead and living.
PARMELIA SAXATILIS (L.) Fr.
“ “ var. SULCATA Nyl.
“ “ “ PANNIFORMIS (Ach.) Schær.
“ “ “ OMPHALODES Fr. On dead wood and rocks.
“ PHYSODES (L.) Ach. Abundant on dead spruce and hemlocks.
“ COLPODES (Ach.) Nyl. On trees and dead wood.
“ OLIVACEA (L.) Ach.
“ “ var. ASPIDOTA Ach.
“ “ “ SOREDIATA (Ach.) Nyl. On trees and rocks.
“ CAPERATA (L.) Ach. Very common on living trees, dead wood, and rocks.

- PARMELIA CONSPERSA** (Ehrh.) Ach. Very abundant on trees and rocks.
- PHYSICIA SPECIOSA** (Wulf., Ach.) Nyl. On rocks with moss.
- “ **AQUILA** (Ach.) Nyl.
- “ “ **var. DETONSA** Tuckerm. Found on trees and rocks.
- “ **PULVERULENTA** (Schreb.) Nyl.
- “ “ **var. LEUCOLEIPTES** Tuckerm. On trees and rocks.
- “ **STELLARIS** (L.) Tuckerm. Found on trees and fence rails.
- “ “ **var. AIPOLIA** Nyl. On granite rocks.
- “ **TRIBACIA** (Ach.) Tuckerm. On trees and granite rocks.
- “ **HISPIDA** (Schreb., Fr.) Tuckerm. On dead wood.
- “ **OBSCURA** (Ehrh.) Nyl. Found on living trees, dead wood, and rocks.
- PHYSICIA SETOSA** (Ach.) Nyl. On rocks among mosses.
- “ **ADGLUTINATA** (Floerk.) Nyl. Collected on shrubs.
- PXYINE SOREDIATA** Fr. On granite rocks.
- UMBILICARIA MUHLENBERGII** (Ach.) Tuckerm. Found on rocks.
- “ **VELLEA** (L.) Nyl. On damp rocks.
- “ **DILLENII** Tuckerm. On granitic rocks.
- “ **PENNSYLVANICA** Hoffm. On granite rocks.
- “ **PUSTULATA** (L.) Hoffm.
- “ “ **var. PAPULOSA** Tuckerm. Found on rocks.
- STICTA AMPLISSIMA** (Scop.) Mass. On rocks, very common.
- “ **PULMONARIA** (L.) Ach. On trees and rocks.
- “ **CROCATA** (L.) Ach. Rocks among mosses.
- “ **SCROBICULATA** (Scop.) Ach. On rocks with mosses.
- NEPHROMA TOMENTOSUM** (Hoffm.) Koerb. On mossy rocks.
- “ **HELVETICUM** Ach. On mossy rocks.
- “ **LÆVIGATUM** Ach. Found on rocks.
- “ “ **var. PARILE** Nyl. On mossy rocks.
- PELTIGERA APHTHOSA** (L.) Hoffm. On damp earth.
- “ **HORIZONTALIS** (L.) Hoffm. On damp rocks.
- “ **POLYDACTYLA** (Neck.) Hoffm. Found on rocks and earth.
- “ **PULVERULENTA** (Tayl.) Nyl. On rocks.
- “ **RUFESCENS** (Neck.) Hoffm. On rocks and earth.
- “ **CANINA** (L.) Hoffm. On rocks and earth.
- “ “ **var. SPONGIOSA** Tuckerm. Among mosses.
- “ “ **var. SOREDIATA** Schær.
- SOLORINA SACCATA** (L.) Ach. On calcareous earth.
- PANNARIA LANUGINOSA** (Ach.) Koerb. On rocks with moss.
- “ **RUBIGINOSA** (Thunb.) Delis. Found on trees.
- “ **BRUNNEA** (Sw.) Mass. On earth.
- “ **MICROPHYLLA** (Sw.) Delis. On rocks.
- “ **MOLYBDÆA** (Pers.) Tuckerm.
- “ “ **var. CRONIA** Nyl. On mossy earth.
- “ **LEUCOSTICTA** Tuckerm. On granite rocks.
- COLLEMA FLACCIDUM** Ach. On granite rock.
- “ **NIGRESCENS** (Huds.) Ach. On dead wood.

LEPTOGIUM LACERUM (Sw.) Fr. On rocks near water.
 " PULCHELLUM (Ach.) Nyl. On mossy rocks.
 " TREMELLOIDES (L. fil.) Fr. On rocks with moss.
 " MYOCHROUM (Ehrh., Shær.) Tuckerm. Found on decayed wood.

PLACODIUM ELEGANS (Link.) DC. On perpendicular rocks.
 " AUEANTIACUM (Lightf.) Naeg. & Hepp.
 " VITELLINUM (Ehrh.) Naeg. & Hepp.

STEREOCAULON CORALLOIDES Fr. On rocks and earth.
 " PASCHALE (L.) Fr. Very common, on rocks and earth.

The foregoing have followed Tuckerman's order. The Cladonias are given in alphabetic order as they have been variously determined.

CLADONIA AMAUROCRÆA (Fl.) Schær. On earth.
 " BACILLARIS (Del.) Nyl. On decayed wood.
 " CÆSPITICIA (Pers.) Flk. On rocks.
 " CARIOSA (Ach.) Spreng. On earth.
 " CORNUCOPIOIDES (L.) Fr. On decayed wood.
 " CRISTATELLA Tuckerm. On decayed wood.
 " DEFORMIS (L.) Hoffm. On earth.
 " DELICATA (Ehrh.) Fl. On decayed wood.
 " FURCATA (Huds.) Fr.
 " " var. CRISPATA Fr.
 " " " PARADOXA Wainio. On earth with moss.
 " " " RACEMOSA Fl. On earth.
 " FIMBRIATA (L.) Fr.
 " " var. CONIOCRÆA (Flk.) Wainio.
 " " " SIMPLEX (Spreng.) Flk. On decayed wood.
 " GRACILIS (L.) Nyl.
 " " var. DILATATA (Hoffm.) Wainio.
 " " " HYBRIDA Schær.
 " " " VERTICILLATA Fr. Collected on earth.

CLADONIA MITRULA Tuckerm. On earth.
 " PYXIDATA (L.) Hoffm. On earth.
 " " var. CHLOROPHÆA (Spreng.) Floerk. On rocks and earth.

CLADONIA PYXIDATA var. NEGLECTA (Flk.) Schær. On mossy rocks.
 " RANGIFERINA (L.) Hoffm.
 " " var. ALPESTRIS L.
 " " " SYLVATICA L. On earth.
 " SQUAMOSA (Scop.) Hoffm. On earth with mosses.
 " TURGIDA (Ehrh.) Hoffm. On earth.
 " UNCIALIS (L.) Web.
 " VERTICELLATA Hoffm.
 " " var. EVOLUTA Th. Fr.

BÆOMYCES ÆRUGINOSUS (Scop.) D.C. On decayed wood.
 " ROSEUS Pers. On earth.

ENDOCARPON FLUVIATILE D.C. On wet earth in brook.

“ MINIATUM Ach.

“ “ var. AQUATICUM Schær.

“ “ “ COMPLICATUM Schær.

Specimens of the above list are in the author's herbarium.

Brooklyn, N. Y.

BOOK NOTICES AND REVIEWS

Dr. Albert Schneider has published two books on Lichens, one a “Text-Book of Lichenology,” published by Willard N. Clute & Co., Binghamton, N. Y., is the standard work, and contains 76 full page plates. The more elementary work, “A Guide to the Study of Lichens,” is published by Knight & Millet, Boston, Mass.

Reginald Heber Howe and Marion Appleton Howe, have begun the publication of “Common and Conspicuous Lichens of New England.” The work is to appear in parts, and part second has just been received. The authors intend that the work shall be “A Field Book For Beginners,” and the two parts already published give assurance that it will serve its purpose well. However, we must warn the beginner against supposing that he can ever get a comprehensive knowledge of the *Lichenes*, without the aid of a microscope, as many of the plants can not be determined by the best lichenist, without careful microscopical study. The marginal illustrations are good, and will, with the aid of the short, but well worded diagnoses, prove very helpful to the beginner. The half tones are by no means all that could be desired, but we will hope for better ones in the future issues. The work will surely help teachers and others beginning to study lichens, and aid them in becoming acquainted with the more conspicuous species.

BRUCE FINK.

“Lichenology for Beginners” by Prof. Sargent, which was printed in THE BRYOLOGIST during 1905, has been issued as a pamphlet and may be obtained by sending fifty cents to the Publishers, The Harvard Co-operative Society, Cambridge, Mass.

SULLIVANT MOSS CHAPTER NOTES.

Seven names are to be added this month to our list of Chapter Members: Mr. G. Henschen, 269 Herr Street, Harrisburg, Pa.; Dr. John L. Sheldon, Prof. Bach. W. Va. Univ. Ag. Ex. Station, Morgantown, W. Va.; Miss Lydia Prichett Borden, Manoa, Delaware Co., Pa.; John W. Eckfeldt, M.D., 245 N. 65th Street, Cor. Vine Street, Philadelphia, Pa.; Mr. Samuel Spring Talbot, 392 Spring Street, Portland, Maine; Mrs. Hannah Streeter, 504 North Marshall Street, Philadelphia, Pa.; Rev. Canon H. W. Lett, Aghaderg Glebe, Loughbrickland, Co. Down, Ireland. Our total membership is now 171.